WHAT IS CLAIMED IS:

- 1 1. A method of providing a remote networked computer with a
- 2 service session using one of a plurality of similarly
- 3 functioning software applications residing on different
- 4 servers with different unique network addresses, the method
- 5 comprising:
- 6 receiving, from the remote computer and at a device
- 7 having a unique network address that is different from the
- 8 network address of any of the servers, a packet-based message
- 9 comprising a request for a service session;
- assigning one of the several servers to be used by the
- 11 remote computer in the service session; and
- transmitting, to the remote computer, a packet-based
- 13 message comprising the unique network address of the assigned
- server for the remote user to address subsequent messages
- 15 during the service session.
- 1 2. The method of claim 1 further comprising receiving, at the
- 2 assigned server, subsequent packet-based messages from the
- 3 remote computer as part of the service session, the
- 4 subsequent messages each being addressed to the unique
- 5 network address of the assigned server.

- 3. The method of claim 2 further comprising, receiving, at the
- assigned server, periodic packet-based test messages from
- 3 the remote computer, and in response, transmitting a
- 4 packet-based message back to the remote computer to
- 5 indicate an operable connection.
- 1 4. The method of claim 1, wherein the device that receives the
- 2 message comprising a request for a service session is a
- 3 load balancer.
- 5. The method of claim 1, wherein the software applications
- involve interaction between multiple remote computers.
- 1 6. The method of claim 5, wherein the software applications
- 2 provide Internet telephony service.
- 7. The method of claim 5, wherein the software applications
- are multiple-user gaming applications.
- 1 8. The method of claim 5, wherein the software applications
- 2 are music-sharing applications.
- 1 9. The method of claim 5, wherein the software applications
- 2 are peer-to-peer applications.

- 1 10. The method of claim 4, wherein the message comprising
- 2 a request for a service session includes a network address
- 3 header containing the unique network address of the load
- balancer, a data port address header, and data fields
- 5 associated with the software application.
- 1 11. The method of claim 10, wherein the data fields
- 2 associated with the software application includes a length
- field, a type field, and a field containing the network
- 4 address of the remote computer that requested the service
- session.
- 1 12. The method of claim 1, wherein the message transmitted
- 2 to the remote computer comprising the unique network
- 3 address of the assigned server includes a network address
- 4 header containing a unique network address associated with
- 5 the remote computer that requested the service session, a
- 6 data port address header, and data fields associated with
- 7 the software application.
- 1 13. The method of claim 12, wherein the data fields
- 2 associated with the software applications includes a length
- 3 field, a type field, and a field containing the network
- 4 address of the assigned server.

- 1 14. The method of claim 1, wherein the unique network
- 2 addresses are all unique IP addresses.
- 1 15. The method of claim 1, wherein the packet-based
- 2 message comprising the unique network address of the
- 3 assigned server is transmitted by the assigned server.
- 1 16. The method of claim 1, wherein the packet-based
- 2 message comprising the unique network address of the
- 3 assigned server is transmitted by a load balancer.
- 1 17. An apparatus for providing service sessions to remote
- 2 networked computers, comprising:
- a plurality of servers each having a different unique
 - network address, each of the servers for executing a similarly
- 5 functioning software application to provide a service session;
- a load balancer having a unique network address different
- 7 from the unique network address of any of the servers, the
- 8 load balancer comprising a first processor and first memory
- 9 for storing thereon instructions that when executed by the
- 10 first processor assigns, in response to receiving from a
- 11 remote networked computer a packet-based message comprising a
- 12 request for a service session, one of the servers to be used
- 13 by the remote computer in the service session;

- a second processor and second memory for storing thereon
- instructions that when executed by the second processor
- 16 transmits, to the remote networked computer that requested
- 17 service, a packet-based message containing the identity of the
- 18 unique network address of the assigned server to which the
- 19 remote networked computer is to address packet-based messages
- 20 during the service session.
- 1 18. The apparatus of claim 17, wherein the first and
- 2 second processors are the same, and the first and second
- memory are the same, the second processor and second memory
- 4 thus being part of the load balancer.
- 1 19. The apparatus of claim 17, wherein the second
- 2 processor and the second memory are part of the assigned
- 3 server.
- 1 20. The apparatus of claim 17, wherein the software
- 2 applications involve interaction between multiple remote
- 3 users.
- 1 21. The apparatus of claim 20, wherein the software
- applications are Internet telephony applications.
- 1 22. The apparatus of claim 20, wherein the software
- 2 applications are multiple user gaming applications.

- 1 23. The method of claim 20, wherein the software
- 2 applications are music-sharing applications.
- 1 24. The method of claim 20, wherein the software
- applications are peer-to-peer applications.
- 1 25. The apparatus of claim 17, wherein the message
- 2 comprising a request for a service session includes a
- 3 network address header containing the unique network
- 4 address of the load balancer, a data port address header,
- 5 and data fields associated with the software application.
- 1 26. The apparatus of claim 25, wherein the data fields
- 2 associated with the software application includes a length
- field, a type field, and a field containing the network
- 4 address of the remote computer that requested the service
- 5 session.
- 1 27. The apparatus of claim 17, wherein the message
- 2 transmitted to the remote computer comprising the unique
- 3 network address of the assigned server includes a network
- address header containing a unique network address
- associated with the remote computer that requested the
- 6 service session, a data port address header, and data
- 7 fields associated with the software application.

- 1 28. The apparatus of claim 27, wherein the data fields
- 2 associated with the software applications includes a length
- 3 field, a type field, and a field containing the network
- 4 address of the assigned server.
- 1 29. The apparatus of claim 17, wherein the unique network
- 2 addresses are all unique IP addresses.
- 1 30. An apparatus that assigns, for a service session, one
- of a plurality of servers with unique network addresses,
- 3 each of the plurality of servers being capable of executing
- 4 a similarly functioning software application to provide the
- 5 service session, the apparatus comprising:
- a unique network address that is different from the
- 7 unique network address of any of the plurality of servers;
- 8 a processor; and
- 9 memory for storing thereon instructions that when
- 10 executed by the processor perform the following functions:
- assigns one of the servers to be used by a remote
- computer in the service session in response to receiving
- a packet-based message comprising a request for the
- service session from the remote computer; and
- transmits, to the remote computer that requested the
- service session, a packet-based message containing the

- unique network address of the assigned server to which
 the remote computer is to address packet-based messages
 during the service session.
- 1 31. The apparatus of claim 30, wherein the message
 2 comprising a request for a service session includes a
 3 network address header that contains the unique network
 4 address of the apparatus, a data port address header, and
 5 data fields associated with the software application.
- 1 32. The apparatus of claim 31, wherein the data fields
 2 associated with the software application includes a length
 3 field, a type field, and a field containing the network
 4 address of the remote computer that requested the service
 5 session.
- 1 33. The apparatus of claim 30, wherein the message
 2 transmitted to the remote computer comprising the unique
 3 network address of the assigned server includes a network
 4 address header containing a unique network address
 5 associated with the remote computer that requested the
 6 service session, a data port address header, and data
 7 fields associated with the software application.

- 1 34. The apparatus of claim 33, wherein the data fields
- 2 associated with the software applications includes a length
- field, a type field, and a field containing the network
- 4 address of the assigned server.
- 1 35. Computer readable medium having stored thereon program
- instructions that when executed by a processor in a
- 3 networked computer perform the following functions:
- 4 transmits, in response to a predetermined user command
- 5 input to the networked computer, a packet-based message
- 6 comprising a request for a service session to a remote service
- 7 provider, the message being addressed to a unique network
 - address associated with the service provider, the service
- 9 provider comprising a plurality of different servers with
- 10 different unique network addresses, each of the servers having
- 11 thereon similarly functioning software applications to provide
- 12 a service session;
- in response to receiving from the service provider a
- 14 packet-based message comprising a unique network address for
- one of the plurality of servers that has been assigned for the
- 16 service session, transmits during the service session packet-
- 17 based messages addressed to the unique network address of the
- 18 assigned server.

- 1 36. The computer readable medium of claim 35, wherein the
- 2 service session involves interaction between multiple
- 3 networked computers remote from the service provider.
- 1 37. The computer readable medium of claim 36, wherein the
- service session is an Internet telephony application.
- 1 38. The computer readable medium of claim 36, wherein the
- 2 service session is a multiple-user gaming application.
- 1 39. The computer readable medium of claim 35, further
- 2 comprising instructions that when executed by the processor
- 3 perform the following functions:
- 4 periodically transmits during the service session
- 5 packet-based test messages addressed to the unique network
- 6 address of the assigned server;
- 7 determines that a connection with the assigned server
- 8 is disconnected if a packet-based message responding to the
- 9 test message is not received from the assigned server
- 10 within a predetermined period of time.
- 1 40. The computer readable medium of claim 39, further
- 2 comprising instructions that when executed by the processor
- 3 perform the following function:
- 4 in response to determining that a connection with the

- 5 assigned server is disconnected, transmits a packet-based
- 6 message comprising a request for a service session to the
- 7 remote service provider and addressed to the unique network
- 8 address associated with the service provider.